

# PATENT ABSTRACTS OF JAPAN

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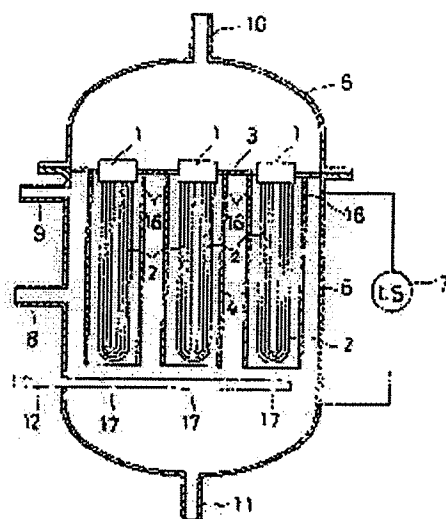
## (54) BACK WASHING METHOD OF HOLLOW FIBER MEMBRANE FILTER

### (57)Abstract:

**PURPOSE:** To promote back washing efficiencies by detecting liquid level during back washing so that the liquid level in a shell does not fall below a predetermined level and supplying water into the shell based on signals of this liquid level or supplying water periodically thereinto by means of a timer.

**CONSTITUTION:** A hollow fiber membrane filter is composed of a tube plate 3 supporting porous hollow modules 1, protection cylinders 4 suspended from the tube plate 3 to protect each of the module 1, a shell 6 covering around the hollow fiber membranes 2, provided with a liquid inlet 8, a vent 9, and a back washing water outlet 11, and a lid 5 which is provided with at least a nozzle 10 and open to the inside of the membranes 2.

Air from an air blow-off port 17 is used as a means for back washing and during back washing liquid levels are detected by a liquid level switch 7 so that the liquid level in the shell 6 does not go down below a predetermined level, whereby liquid is supplied into the shell 6 based on the signal of the liquid level or liquid is supplied thereinto periodically by means of a timer having been set in advance. As a result, back washing efficiencies can be improved.



## LEGAL STATUS